

**IN THE CLAIMS:**

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 9 and ADD new claim 18 in accordance with the following:

1-8. (Cancelled)

9. (Currently Amended) A method of backward-signaling of a transmission service used for setting up a call from a telecommunication network, comprising

calling, from the telecommunication network, a mobile terminal in a service area of a destination mobile switching center in a digital mobile radio network via an access mobile switching center; and

negotiating, between the mobile terminal and the destination mobile switching center, information fully describing the transmission service to be used for the call, the information including at least a Bearer Capability (PLMN-BC) information element,

wherein the destination mobile switching center converts the PLMN-BC information element into an Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element, and

wherein the information is stored in the destination mobile switching center and is transported using at least one ISUP message at least to ~~the~~an access mobile switching center to effect the backward signaling.

10. (Previously Presented) The method according to claim 9, wherein the telecommunication network is an ISDN, a Public Switched Telephone Network (PSTN), or a Public Land Mobile Network (PLMN).

11. (Previously Presented) The method according to claim 9, wherein the information is transported using at least one ISDN User Part (ISUP) message.

12. (Previously Presented) The method according to claim 11, wherein the at least one ISUP message is an Address Complete Message (ACM), an Answer Message (ANM), a Connect Message (CON), or a Call Progress Message (CPG).

13. (Previously Presented) The method according to claim 11, wherein the information is made available in an optional Access Transport parameter in the at least one ISUP message.

14. (Previously Presented) The method according to claim 9, wherein the information is evaluated in the access mobile switching center in order to execute transmission service specific functions contained therein.

15. (Previously Presented) The method according to claim 9, further comprising transmitting the information to at least one network node in the digital mobile radio network or in the telecommunication network to be involved in the call.

16. (Previously Presented) The method according to claim 9, wherein the information comprises a Low Layer Compatibility information element (LLC) or a High Layer Compatibility information element (HLC).

17. (Previously Presented) A system in which a transmission service is backward-signalized, comprising:

- a destination mobile switching center in a digital mobile radio network, the destination mobile switching center having a service area;

- a mobile terminal in the service area; and

- a telecommunication network calling the mobile terminal via an access mobile switching center so as to negotiate information fully describing a transmission service to be used for a call to be set up between the telecommunication network and the mobile terminal, the information including at least a Bearer Capability (PLMN-BC) information element,

- wherein the destination mobile switching center converts the PLMN-BC information element into an Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element,

- wherein the destination mobile switching center receives the information and stores the received information, and

- wherein the information is transported using at least one ISUP message at least to the access mobile switching center to effect the backward signaling.

18. (New) A destination mobile switching center in a digital mobile radio network for communicating between an access mobile switching center and a mobile terminal within a service area of the destination mobile switching center, the destination mobile switching center comprising:

- a negotiation unit to negotiate information fully describing a transmission service to be used for a call to be set up between a home telecommunication network and the mobile terminal, the information including at least a Bearer Capability (PLMN-BC) information element;

- a memory to store the PLMN-BC information element;

- a conversion unit to convert the PLMN-BC information element into an Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element;

and

- a transmitter to transmit the information using at least one ISUP message to the access mobile switching center to effect the backward signaling.